Atty. Dkt. No. 03CR418/KE (047141-0350)

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (Currently Amended) A method of adapting a communication link in a network of radio communication nodes, comprising:

sending by a first node a first radio communication to a monitoring node;

receiving by the monitoring -a second-node the first radio communication;

estimating by the monitoring-second node the dynamics of the a communications channel based on a link metric of at least the first radio communication;

categorizing the dynamics of the communications channel into one of at least two groups, based on the estimate;

selecting, based on the a chosen group, the use of either closed loop link adaptation or open loop adaptation of communication link parameters.

2.   (Original) The method of claim 1, wherein one of the two groups is a static group.

3.   (Original) The method of claim 1, wherein one of the two groups is a dynamic group.

4.   (Currently Amended) The method of claim 1, wherein the link metric estimate is based on the a received signal strength indicator (RSSI).

5.   (Currently Amended) The method of claim 1, wherein the link metric estimate is based on the a signal to noise ratio (SNR).

6.   (Currently Amended) The method of claim 1, wherein the link metric estimate is based on the a symbol error rate (SER).

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7.   (Original) The method of claim 1, wherein the first radio communication includes a message header with a transmission power indicator.

8.   (Original) The method of claim 1, wherein the communication link parameters comprise at least one of transmit power, modulation type, and forward error correction (FEC).

9.   (Currently Amended) A method of changing communication link adaptation techniques in a network of radio communication nodes, comprising:

       detecting interference by utilizing a monitoring node that receives communication signals in based on an open loop mode metric;

       estimating using an open loop estimator, the a channel dynamics; and

       determining, whether transmission parameters should be adjusted based on open loop metrics or closed loop metrics, based on the channel dynamics.

10.   (Original) The method of claim 9, further comprising:

       adjusting the transmission parameters based on open loop metrics.

11.   (Original) The method of claim 10, further comprising:

       adjusting the transmission parameters based on closed loop metrics.

12.   (Currently Amended) The method of claim 19, wherein the open loop estimator uses the a received signal strength indicator (RSSI).

13.   (Currently Amended) The method of claim 19, wherein the open loop estimator uses the a signal to noise ratio (SNR).

14.   (Currently Amended) The method of claim 19, wherein the open loop estimator uses the a symbol error rate (SER).

15.   (Currently Amended) The method of claim 19, further comprising:

       receiving a radio communication having a message header with a transmission power indicator.

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16.   (Currently Amended) The method of claim ~~1~~9, wherein the transmission parameters comprise at least one of transmit power, modulation type, and forward error correction (FEC).

17.   (Currently Amended) A radio node communication system, comprising:
    a first radio node, <u>the first radio node configured to send a first radio communication to a monitoring node and a second radio node</u>;
        ~~a second radio node;~~
    a processor <u>coupled to the monitoring node that</u> ~~generating~~ <u>generates</u> an open loop metric to estimate channel dynamics, and determining, based on the channel dynamics, ~~the~~ <u>a</u> transmission parameter adjustments based on one of the open loop metrics or closed loop metrics.

18.   (Original) The system of claim 17, wherein the transmission parameters comprise at least one of transmit power, modulation type, and forward error correction (FEC).

19.   (Original) The system of claim 17, wherein the first radio node comprises a radio transceiver and the second radio node comprises a radio transceiver.

20.   (Original) The system of claim 17, wherein the estimate utilizes transmission power indicator information from the first radio node.

21.   (New) The system of claim 1, further comprising sending by the first node the first radio communication to at least a second node.